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## (54) SIGNAL PROCESSOR

### (57)Abstract:

**PURPOSE:** To remove the problem of loss in lip synchronism by generating a muting control signal when the function of difference showing the relative synchronism of audio and video exceeds a threshold value and preventing the reproduction of audio from being performed through a muting circuit in response to this signal when the timing of audio and video component signals gets out of synchronism.

**CONSTITUTION:** The viewer of human being notices the lip synchronism error of -20 ms or +40 ms. When the lip synchronism error exceeds about 13 ms, in this case, the audio is muted. The muting control signal is generated by a threshold detector 225. This threshold detector 225 monitors an audio/video synchronism error signal provided from a subtracter 219. When the error signal exceeds a value corresponding to 13 ms, a muting control value is generated. The muting control signal outputted from the detector 225 is designed so as not to generate the output of D/A converter 227 or restoration device 212.

